	Application No.	Applicant(s)
Notice of Allowability	10/606,041	LUNDSTROM, GARRY R.
	Examiner	Art Unit
	Natalia Figueroa	2651
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICO of the Office or upon petition by the applicant. See 37 CFR 1.313	ars on the cover sheet with OR REMAINS) CLOSED in the community of the cover sheet with the cover sheet wit	nis application. If not included cation will be mailed in due course. THIS
1. X This communication is responsive to amendment (18 Augus	<u>st 2005)</u> .	
2. ☑ The allowed claim(s) is/are <u>1,3-7 and 16</u> .		
 3. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	been received.	
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority doc	uments have been received in	n this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		·
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives		
5. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.	
(a) ☐ including changes required by the Notice of Draftsperso		PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		·
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	it of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the OGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of Info	mal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08	Paper No./Ma	ail Date mendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		atement of Reasons for Allowance
of Biological Material	9.	

REASONS FOR ALLOWANCE

Allowable Subject Matter

- 1. Claims 1, 3-7 and 16 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

RE claim 1, the prior art of record, and in particular King (USPN 5,121,280), fails to teach or suggest a method comprising selectively applying magnetic fields to a second set of surface variations of the patterned magnetic medium to encode data on the patterned magnetic medium, wherein a timing of the selective application of the magnetic fields is defined by the synchronization of the magnetic drive to the patterned magnetic medium, wherein the first and second sets of surface variation comprise first and second protrusions respectively, and selectively applying magnetic fields to the second set of surface variations comprises applying magnetic fields to the second protrusions and not applying magnetic fields to areas between the second protrusions.

RE claim 3, the prior art of record, and in particular King (USPN 5,121,280), fails to teach or suggest a method comprising selectively applying magnetic fields to a second set of surface variations of the patterned magnetic medium to encode data on the patterned magnetic medium, wherein a timing of the selective application of the magnetic fields is defined by the synchronization of the magnetic drive to the patterned magnetic medium, further comprising conditioning the magnetic medium prior to synchronizing the magnetic drive to magnetically expose the first and second sets of surface variations relative to areas between the surface variations in the first set and areas between surface variations in the second set.

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RE claim 4, the prior art of record, and in particular King (USPN 5,121,280), fails to teach or suggest a method comprising selectively applying magnetic fields to a second set of surface variations of the patterned magnetic medium to encode data on the patterned magnetic medium, wherein a timing of the selective application of the magnetic fields is defined by the synchronization of the magnetic drive to the patterned magnetic medium, wherein the patterned magnetic medium exhibits perpendicular magnetic anisotropy, and at least some of the surface variations in the first and second sets define widths of less than approximately 5.0 microns.

RE claim 6, the prior art of record, and in particular King (USPN 5,121,280), fails to teach or suggest a method comprising selectively applying magnetic fields to a second set of surface variations of the patterned magnetic medium to encode data on the patterned magnetic medium, wherein a timing of the selective application of the magnetic fields is defined by the synchronization of the magnetic drive to the patterned magnetic medium, and magnetically detecting the set of first surface variations relative to areas between the surface variations in the first set.

RE claim 7, the prior art of record, and in particular King (USPN 5,121,280), fails to teach or suggest method comprising selectively applying magnetic fields to a second set of surface variations of the patterned magnetic medium to encode data on the patterned magnetic medium, wherein a timing of the selective application of the magnetic fields is defined by the synchronization of the magnetic drive to the patterned magnetic medium, wherein synchronizing the magnetic drive includes identifying a variable frequency oscillator (VFO) signal in the set of first surface variations.

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RE claim 16, the prior art of record, and in particular King (USPN 5,121,280), fails to teach or suggest a system comprising a magnetic drive that synchronizes to the patterned magnetic medium based on detection of the set of first surface variations, and selectively applies magnetic fields to the second set of surface variations to encode data on the patterned magnetic medium; wherein a timing of the selective application of the magnetic fields is defined by the synchronization of the magnetic drive to the patterned magnetic medium, wherein the magnetic drive includes a magnetic head positioned relative to the patterned magnetic recording medium and a controller to control application of magnetic fields by the magnetic head, and wherein the magnetic head defines a gap less than approximately 50% of a width associated with the surface variations in the second set.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalia Figueroa whose telephone number is (571) 272-7554. The examiner can normally be reached on Monday - Thursday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NEM

DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600